

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-35. (Canceled)

36. (New) A method for determining a received channel power indicator (RCPI) in a wireless network, the method comprising:

measuring a received radio frequency power in a selected channel for an antenna over a physical layer convergence protocol (PLCP) preamble; and

determining an N bit received channel power indicator (RCPI) parameter from the measured received radio frequency power.

37. (New) The method of claim 36 wherein the measured received radio frequency power is measured by a PHY sublayer.

38. (New) The method of claim 37 wherein the PHY sublayer is a direct sequence spread spectrum (DSSS) PHY sublayer.

39. (New) The method of claim 37 wherein the PHY sublayer is an orthogonal frequency division multiplex (OFDM) PHY sublayer.

40. (New) The method of claim 36 wherein the RCPI parameter is derived using a monotonically increasing logarithmic function.

41. (New) The method of claim 40 wherein the monotonically increasing logarithmic function is defined in dBm.

42. (New) The method of claim 36 wherein a value of the Nbit RCPI parameter is an 8 bit RCPI parameter.

43. (New) The method of claim 42 wherein a value of the 8 bit RCPI parameter is in a range of 0 through 220.

44. (New) The method of claim 43 wherein the 8 bit RCPI parameter value is rounded to a nearest 0.5 dBm.

45. (New) The method of claim 44 wherein the 0 range value corresponds to -110dBm and the 220 range value corresponds to -0dBm.

46. (New) The method of claim 41 wherein the measured received radio frequency power is measured to an accuracy of +/- 5dB.

47. (New) A wireless transmit/receive unit (WTRU) configured to determine a received channel power indicator (RCPI) in a wireless network, the WTRU comprising:

an antenna configured to receive a wireless signal including a physical layer

convergence protocol (PLCP) preamble;

a processor configured to:

measure a received radio frequency power in a selected channel for an antenna over a physical layer convergence protocol (PLCP) preamble; and

determine an N bit received channel power indicator (RCPI) parameter from the measured received radio frequency power.

48. (New) The WTRU of claim 47 wherein the measured received radio frequency power is measured by a PHY sublayer.

49. (New) The WTRU of claim 48 wherein the PHY sublayer is a direct sequence spread spectrum (DSSS) PHY sublayer.

50. (New) The WTRU of claim 48 wherein the PHY sublayer is an orthogonal frequency division multiplex (OFDM) PHY sublayer.

51. (New) The WTRU of claim 47 wherein the RCPI parameter is derived using a monotonically increasing logarithmic function.

52. (New) The WTRU of claim 51 wherein the monotonically increasing logarithmic function is defined in dBm.

53. (New) The WTRU of claim 47 wherein a value of the Nbit RCPI parameter is an 8 bit RCPI parameter.

54. (New) The WTRU of claim 53 wherein a value of the 8 bit RCPI parameter is in a range of 0 through 220.

55. (New) The WTRU of claim 54 wherein the 8 bit RCPI parameter value is rounded to a nearest 0.5 dBm.

56. (New) The WTRU of claim 55 wherein the 0 range value corresponds to -110dBm and the 220 range value corresponds to -0dBm.

57. (New) The WTRU of claim 52 wherein the measured received radio frequency power is measured to an accuracy of +/- 5dB.